

ELECTRONIC BILL SYSTEM

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Abstract

PROBLEM TO BE SOLVED: To obtain an electronic bill system which can actualize a safe and speedy on-line connection between a bank and a bill drawer or between an issuer and a recipient.

SOLUTION: An issue-source computer 1 generates an electronic bill on the basis of a predetermined discount rate by using an unspecified random number, ciphers the bill by using a random factor, and sends it to the bank. The bank withdraws the requested amount of money from the account of the issuer of the electronic bill, gives an electronic sign to the electronic bill ciphered with a secret key, and sends it back to the issue-source computer, which deciphers the sent-back electronic bill and draws a bill. The computer 2 as the recipient of the electronic bill after confirming the electronic sign sends and presents the bill to the bank. The bank collates the electronic sign of the electronic bill and pays the amount of money corresponding to the electronic bill to the account of the recipient to settle the account.

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